

In this lab, we will learn to use the following:

1. Use lists to store data
2. Import modules
3. Basic functions
4. Implement algorithms to compute statistics

Start by downloading *500DayFruitData.txt* from D2L. Next you will need to create two files. The names should be

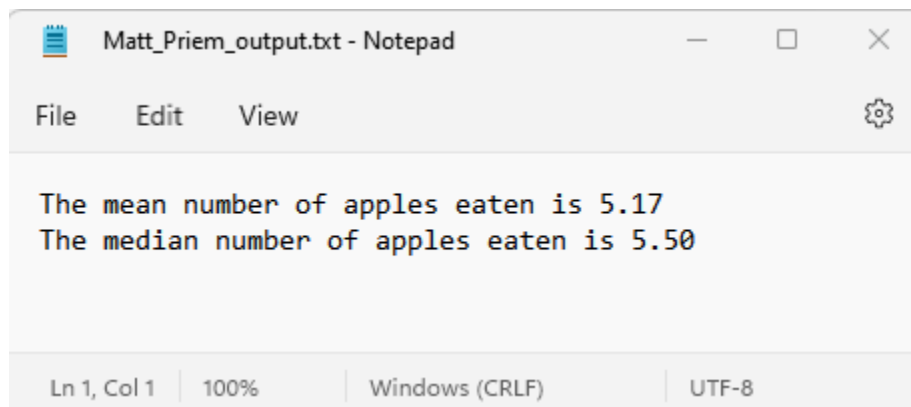
- `FirstName.LastName.MyProgram.py`
- `FirstName.LastName.Stats.py`

In `FirstName.LastName.Stats.py` create two functions named `Mean` and `Median` that calculate the mean and median, respectively. Each one should accept a list of numbers as an argument and return a single number.

Your `FirstName.LastName.MyProgram.py` should

- Get the information from the *500DayFruitData.txt* file.
- Use the functions defined in `FirstName.LastName.Stats.py` to calculate
  - The mean number of apples eaten. (Only include days were apples were eaten).
  - The median number of apples eaten. (Only include days were apples were eaten).
  - You don't need to make any calculations for bananas or strawberries.
- Output the mean and median values to a file named `FirstName.LastName.Output.txt`

You should get output similar to the following... (Averages may vary)



```
Matt_Priem_output.txt - Notepad
File Edit View
The mean number of apples eaten is 5.17
The median number of apples eaten is 5.50
Ln 1, Col 1 | 100% | Windows (CRLF) | UTF-8
```

When you're all done upload all of the following to D2L

- `FirstName.LastName.MyProgram.py`
- `FirstName.LastName.Stats.py`
- `FirstName.LastName.Output.txt`